Jordan Low

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NUS High School:
Triple Distinction in Chemistry, Biology and Physics Honours

Awards:
IChTo Gold
SJBO Gold
SJChO Gold
World Robot Olympiad (WRO) 3rd Place

Internships:
E6 Nanofab @NUS

Plasma Engineering and Applied Research Lab @ NIE

Computational Intelligence Lab @ NTU

MD6 @ NUH

Specialist Dental Group @ Mount E

Research Experience:

Minimally Invasive Annuloplasty using Shape Memory Materials

A self-initiated research project. By using shape memory alloys and polymers, we were able to create novel annuloplasty rings for neonatal and minimally invasive procedures.

Awards: Global Youth Science and Technology Bowl (1st Place), SSEF (Gold), Tan Kah Kee Young Inventors' Award (Silver)

Plasma-Based Defect Engineering of Graphene for Biosensing Applications

By using RF plasma to alter the electrical properties of graphene, we expanded the detection range of graphene-based sensors for blood-glucose monitoring applications.

This was published under the International Researchers Club Conference.

Awards: Invitation to the International Science Youth Forum

Virtual Arm with Multimodal Biased feedback for Improving EEG Motor Imagery Calibration Training

We explored the use of brain-computer interface (BCI) data generated through motor movements as opposed to traditional imagery to train machine-learning models. We demonstrate higher training accuracy using this method.

Awards: International Elementz Fair (Gold), SSEF (Silver)